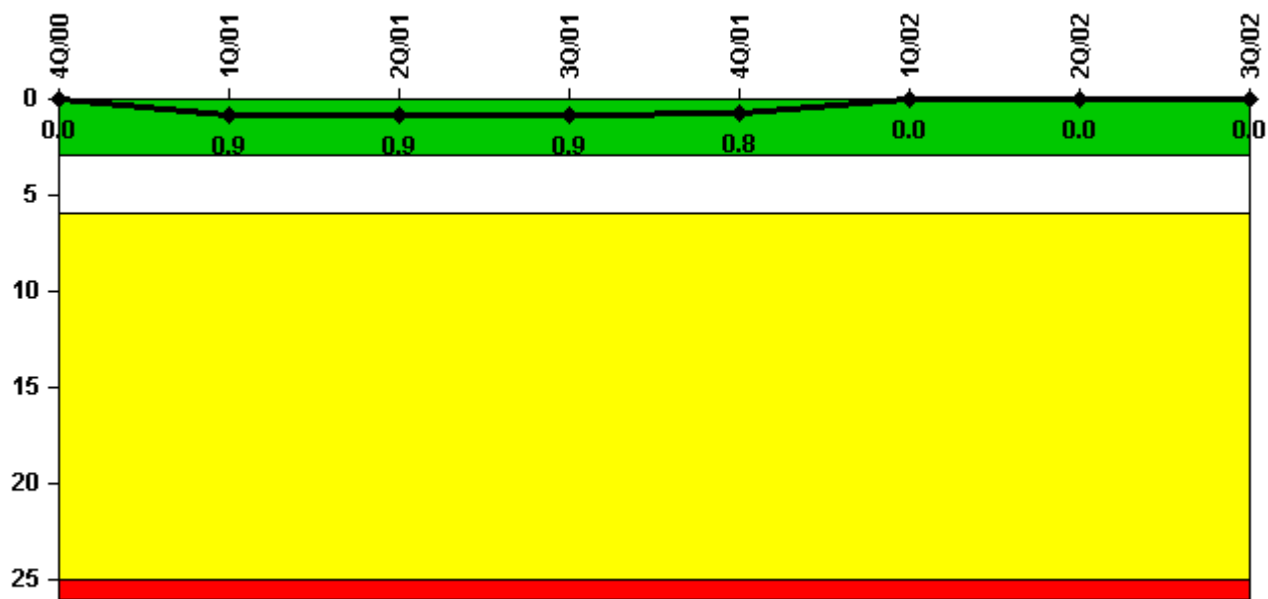


# Waterford 3

## 3Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



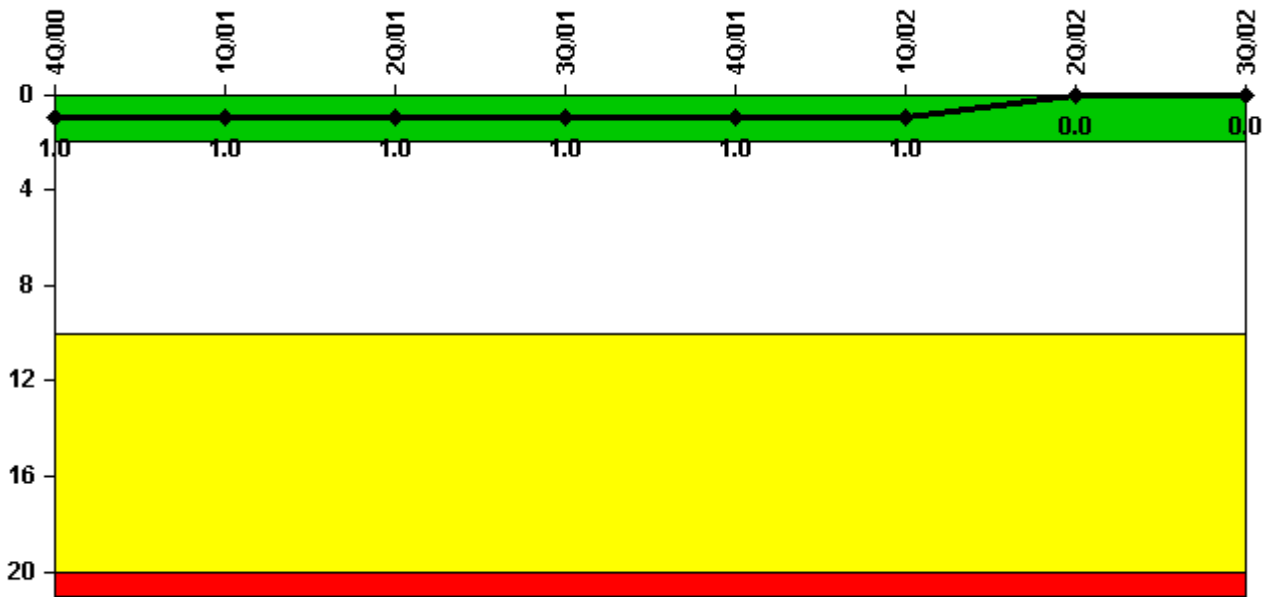
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9	1806.0	2208.0
Indicator value	0	0.9	0.9	0.9	0.8	0	0	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



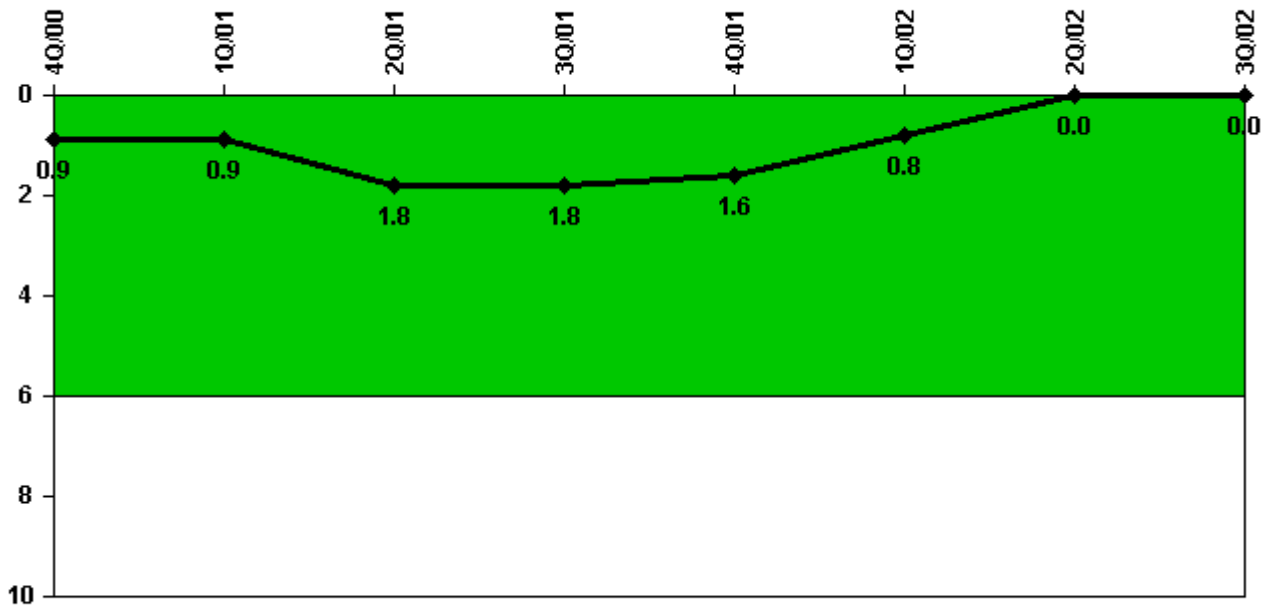
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



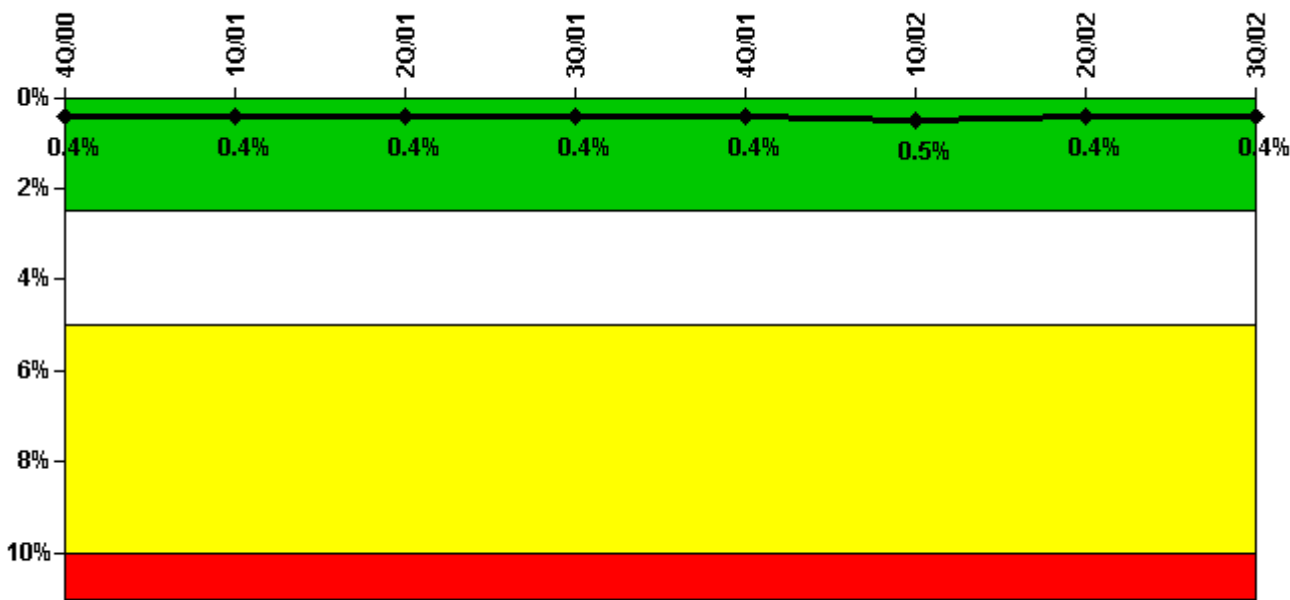
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	1.0	1.0	0	0	0	0	0
Critical hours	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9	1806.0	2208.0
Indicator value	0.9	0.9	1.8	1.8	1.6	0.8	0	0

Licensee Comments: none

## Safety System Unavailability, Emergency AC Power



**Thresholds:** White > 2.5% Yellow > 5.0% Red > 10.0%

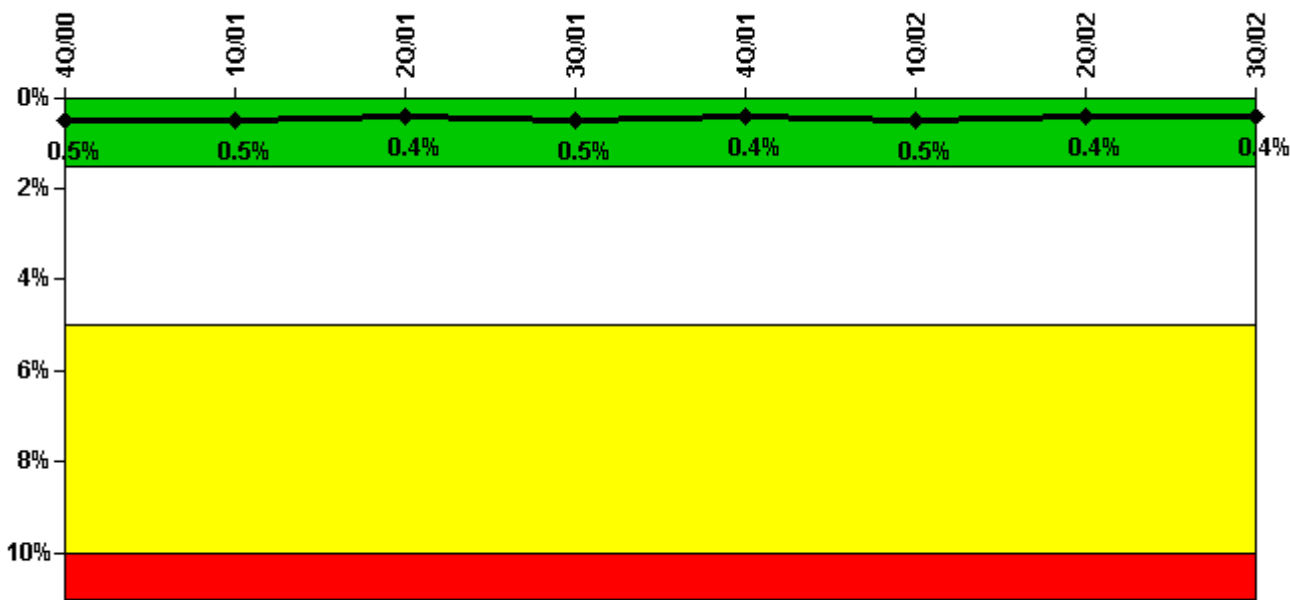
### Notes

Safety System Unavailability, Emergency AC Power	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
<b>Train 1</b>								
Planned unavailable hours	0	0	0	0	5.68	9.95	0	0
Unplanned unavailable hours	0	0	0	16.33	47.48	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	3.98	2.65	1.50	0	1.92	12.77	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	8.02
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%	0.4%	0.4%

Licensee Comments:

3Q/02: Engineering has re-evaluated Emergency AC Power System unavailability hours for the following quarters: 4Q1999, 1Q2000, 2Q2000, 3Q2000, 4Q2000, and 1Q2001. Based on that evaluation, several reductions in the system unavailable hours has been identified. Revised data has been submitted with the 3rd quarter 2002 submittal via a change report. The changes have no affect on the past or present color of this performance indicator.

## Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

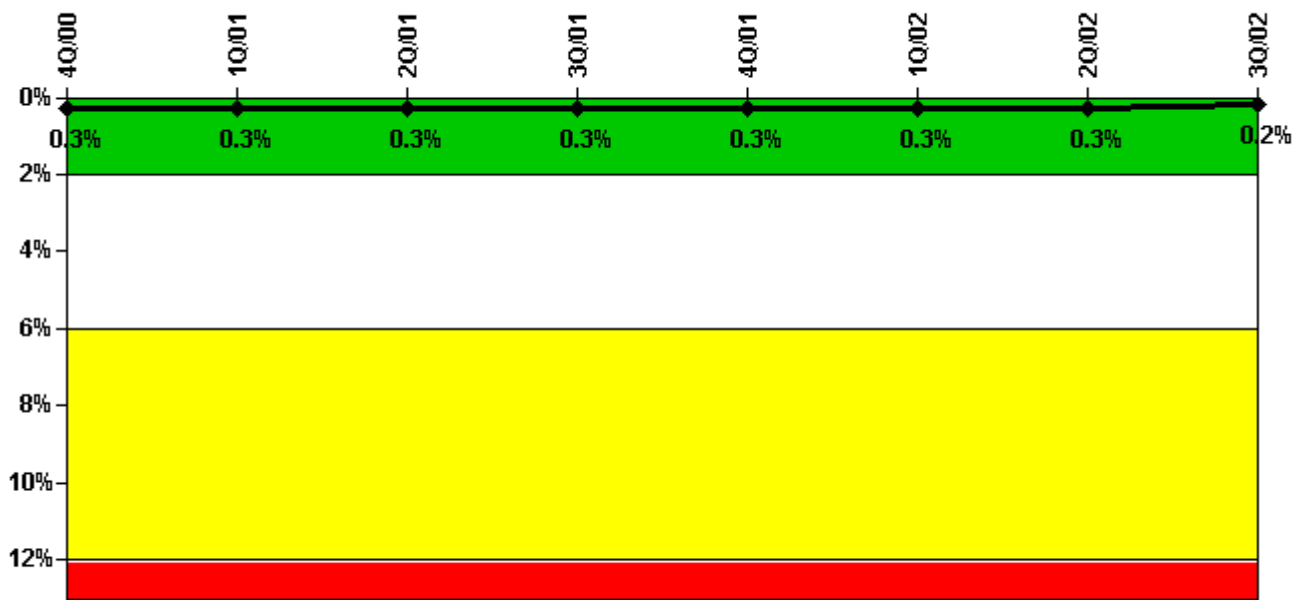
### Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
<b>Train 1</b>								
Planned unavailable hours	0	1.53	0	22.43	14.38	9.80	0	0
Unplanned unavailable hours	0	2.80	0	0.58	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
<b>Train 2</b>								
Planned unavailable hours	3.98	2.65	1.50	0	0	14.42	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
Indicator value	0.5%	0.5%	0.4%	0.5%	0.4%	0.5%	0.4%	0.4%

Licensee Comments:

3Q/02: Engineering has re-evaluated High Pressure Injection System unavailability hours for the following quarters: 4Q1999, 1Q2000, 2Q2000, 3Q2000, 4Q2000, 1Q2001, and 2Q2001. Based on that evaluation, several reductions in the system unavailable hours has been identified. Revised data has been submitted with the 3rd quarter 2002 submittal via a change report. The changes have no affect on the past or present color of this performance indicator.

## Safety System Unavailability, Heat Removal System (AFW)



**Thresholds:** White > 2.0% Yellow > 6.0% Red > 12.0%

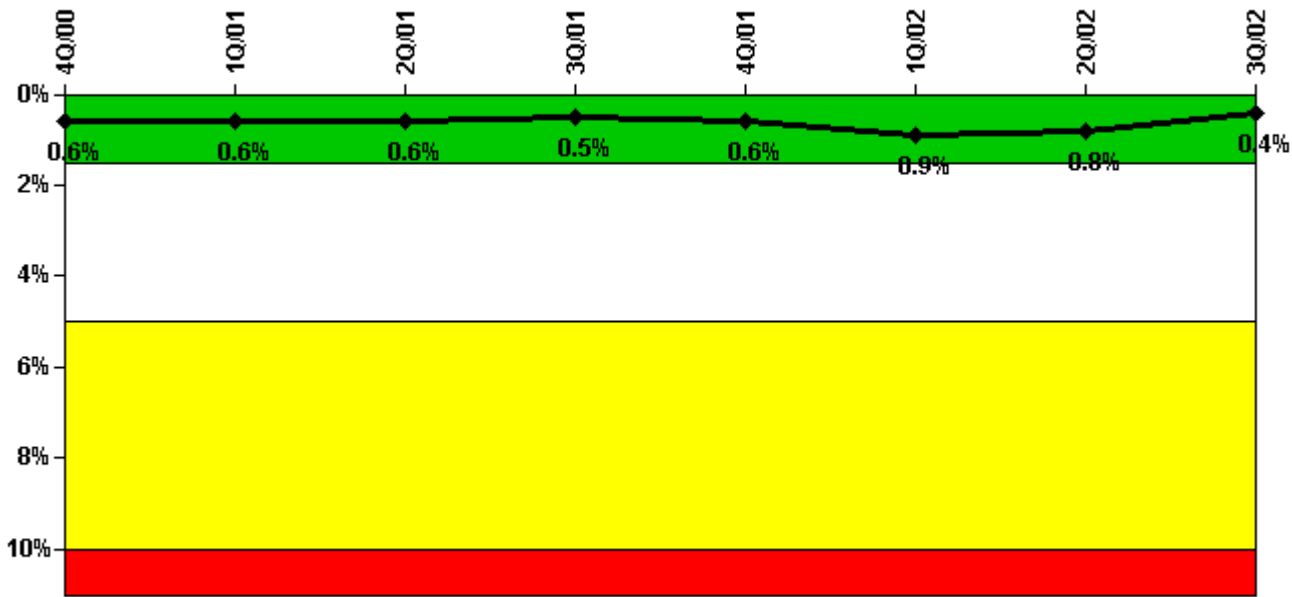
### Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
<b>Train 1</b>								
Planned unavailable hours	0	0	0	11.00	14.38	9.80	6.22	0
Unplanned unavailable hours	0	0	0	0.58	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
<b>Train 2</b>								
Planned unavailable hours	3.98	2.65	1.50	8.38	0.32	12.77	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
<b>Train 3</b>								
Planned unavailable hours	0	0	7.90	0	0	0	0	0
Unplanned unavailable hours	0	0	0.87	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
<b>Indicator value</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.2%</b>

Licensee Comments:

3Q/02: Engineering has re-evaluated Heat Removal System unavailability hours for the following quarters: 4Q1999, 1Q2000, 2Q2000, 3Q2000, 4Q2000, and 1Q2001. Based on that evaluation, several reductions in the system unavailable hours has been identified. Revised data has been submitted with the 3rd quarter 2002 submittal via a change report. The changes have no affect on the past or present color of this performance indicator.

### Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

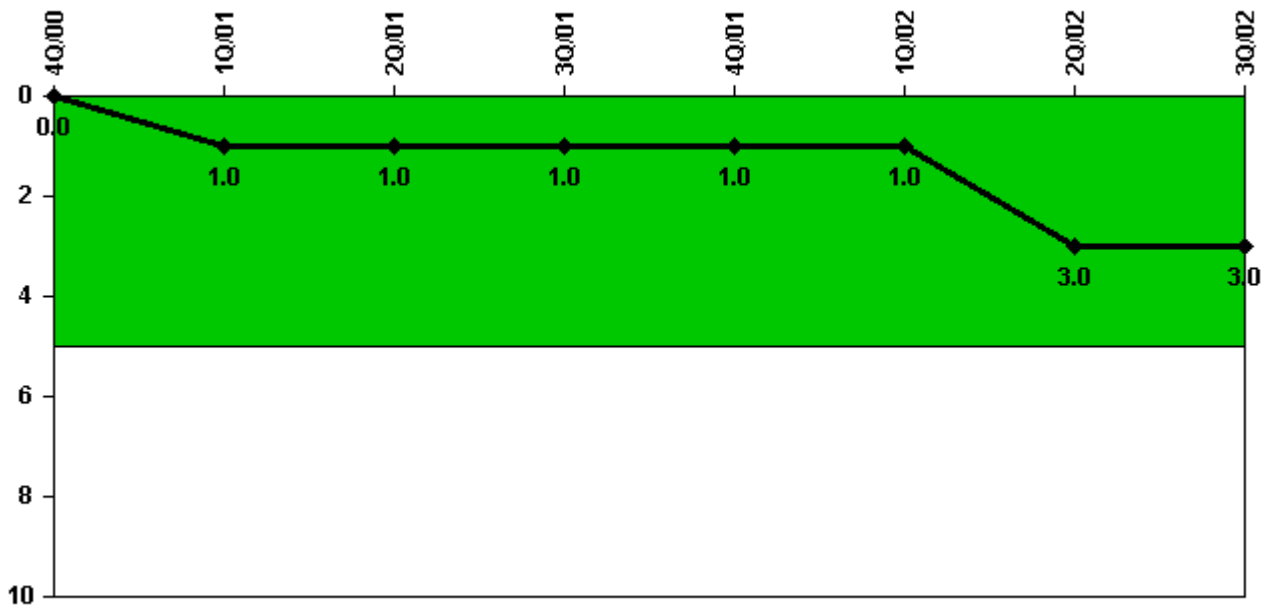
Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
<b>Train 1</b>								
Planned unavailable hours	0	0	0	0	14.38	9.80	0	0
Unplanned unavailable hours	0	0	0	0.58	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
<b>Train 2</b>								
Planned unavailable hours	3.98	2.65	1.50	0	18.52	34.25	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
<b>Train 3</b>								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	2.83	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	549.21	0	0	0	0	207.22	345.38	0
<b>Train 4</b>								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	2.93	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	549.21	0	0	0	0	207.22	345.38	0
Indicator value	0.6%	0.6%	0.6%	0.5%	0.6%	0.9%	0.8%	0.4%

## Licensee Comments:

3Q/02: Engineering has re-evaluated Residual Heat Removal System unavailability hours for the following quarters: 4Q1999, 1Q2000, 2Q2000, 3Q2000, 4Q2000, and 1Q2001. Based on that evaluation, several reductions in the system unavailable hours has been identified. Revised data has been submitted with the 3rd quarter 2002 submittal via a change report. The changes have no affect on the past or present color of this performance indicator.

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

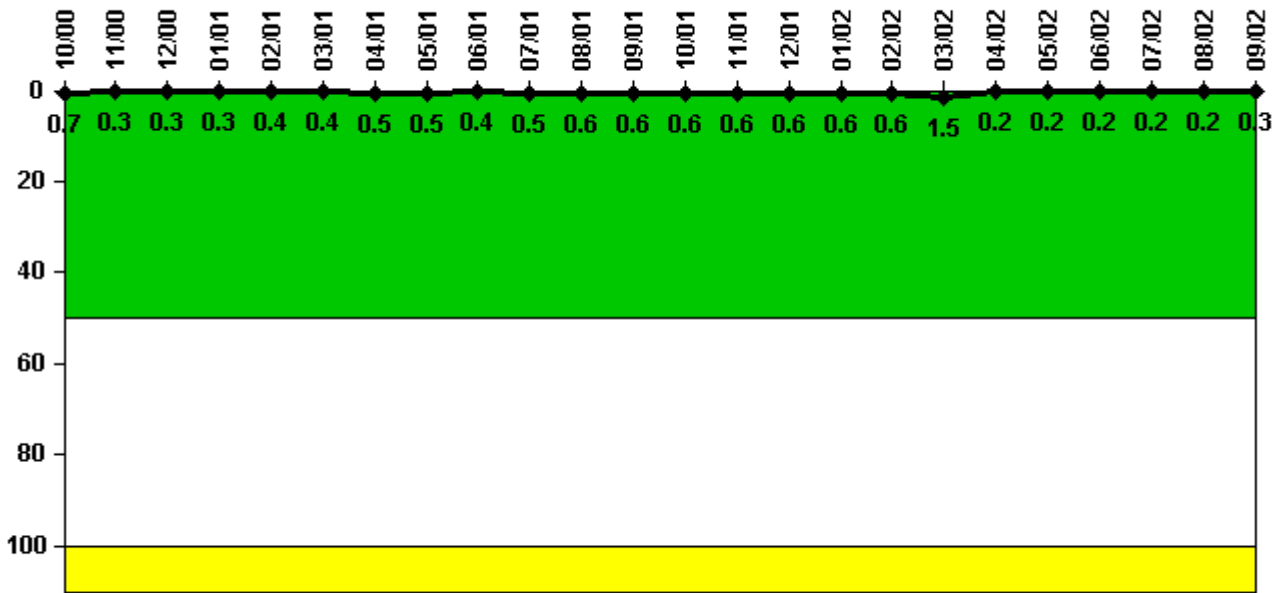
### Notes

Safety System Functional Failures (PWR)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Safety System Functional Failures	0	1	0	0	0	1	2	0
Indicator value	0	1	1	1	1	1	3	3

Licensee Comments: none



## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

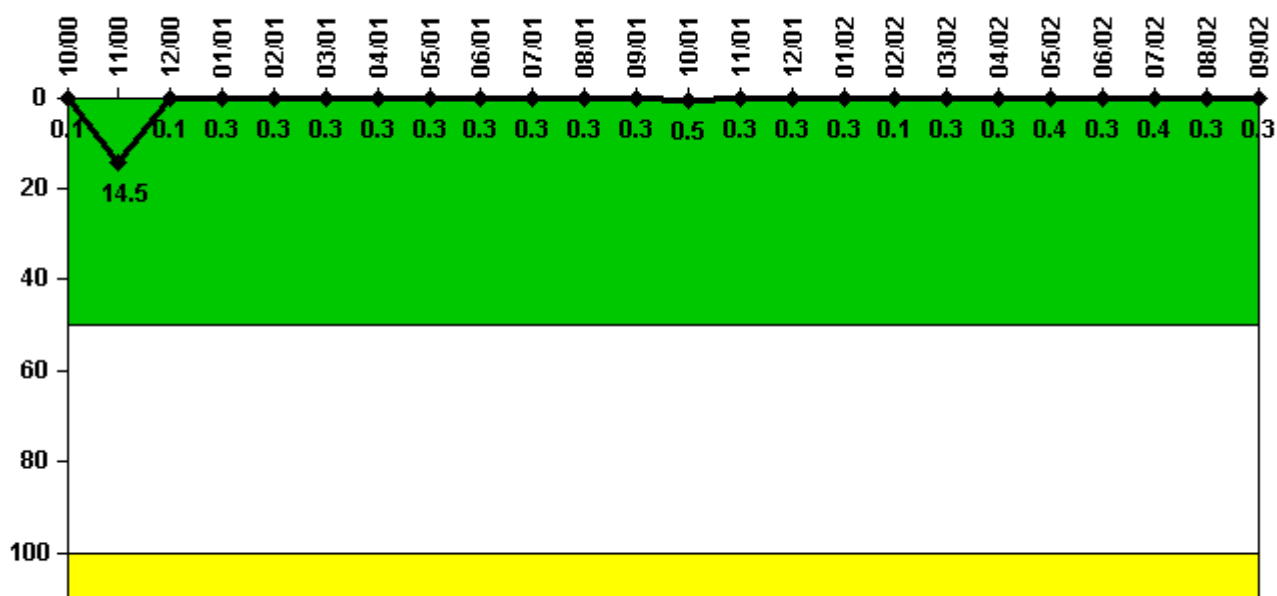
Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.007100	0.002710	0.003120	0.003460	0.004220	0.004250	0.004500	0.004500	0.004280	0.005040	0.005940	0.005670
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.5	0.6	0.6

Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.005640	0.005650	0.005870	0.005610	0.005930	0.015200	0.001890	0.002180	0.002270	0.002460	0.002440	0.002570
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.6	0.6	0.6	0.6	1.5	0.2	0.2	0.2	0.2	0.2	0.3

Licensee Comments: none

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

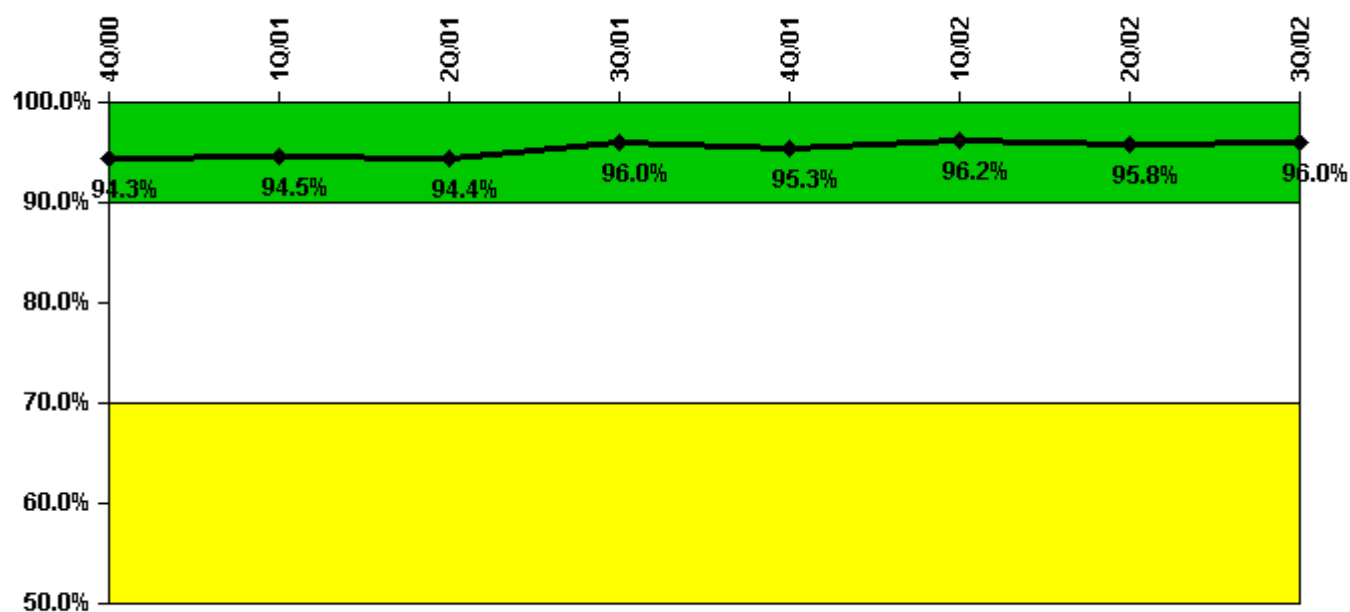
Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	0.014	1.452	0.014	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	14.5	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.051	0.028	0.027	0.033	0.014	0.026	0.030	0.040	0.027	0.039	0.028	0.028
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.3	0.3	0.3	0.1	0.3	0.3	0.4	0.3	0.4	0.3	0.3

Licensee Comments: none

### Drill/Exercise Performance



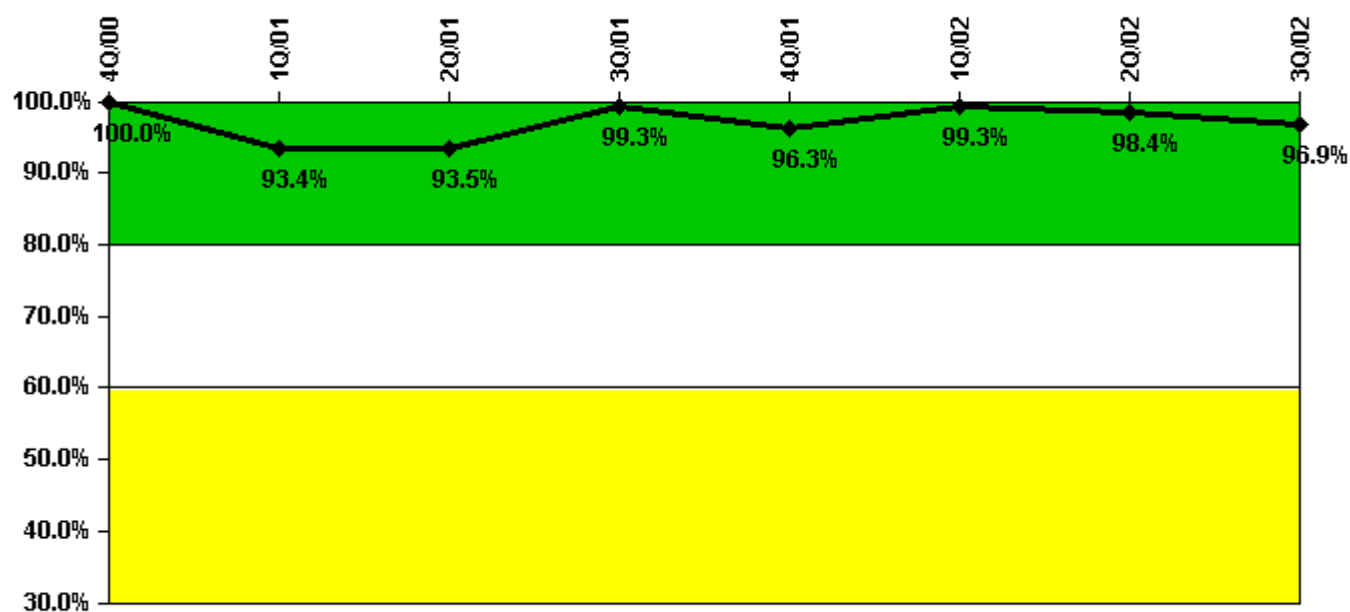
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	10.0	12.0	20.0	21.0	43.0	38.0	17.0	31.0
Total opportunities	10.0	12.0	20.0	22.0	46.0	38.0	18.0	34.0
Indicator value	94.3%	94.5%	94.4%	96.0%	95.3%	96.2%	95.8%	96.0%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

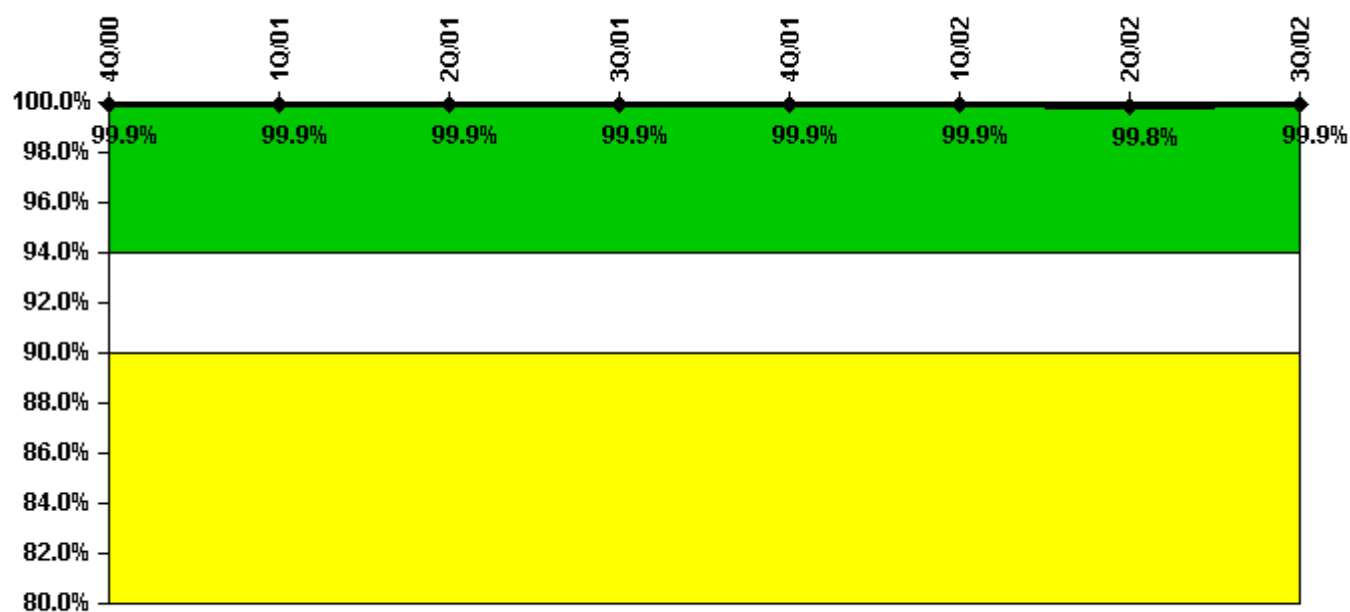
### Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	122.0	128.0	129.0	135.0	130.0	139.0	125.0	127.0
Total Key personnel	122.0	137.0	138.0	136.0	135.0	140.0	127.0	131.0
Indicator value	100.0%	93.4%	93.5%	99.3%	96.3%	99.3%	98.4%	96.9%

Licensee Comments:

3Q/02: Corrections were made for the 1st and 2nd quarter 2002 ERO Drill Participation. They were made because an individual was given credit when his qualifications had expired. The 1st quarter 2002 was originally reported as 141 of 142. The 2nd quarter 2002 was originally reported as 127 of 129. This correction does not affect the past or current color of this performance indicator.

## Alert & Notification System



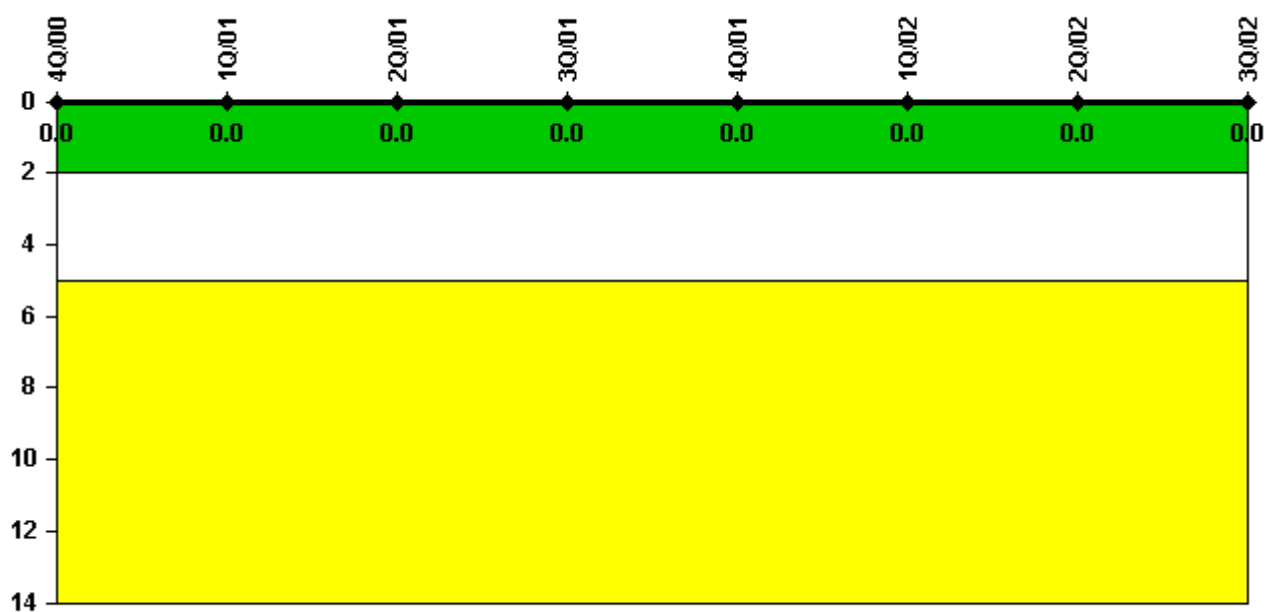
**Thresholds:** White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	402	402	402	401	401	420	419	420
Total sirens-tests	402	402	402	402	402	420	420	420
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%	99.9%

Licensee Comments: none

### Occupational Exposure Control Effectiveness

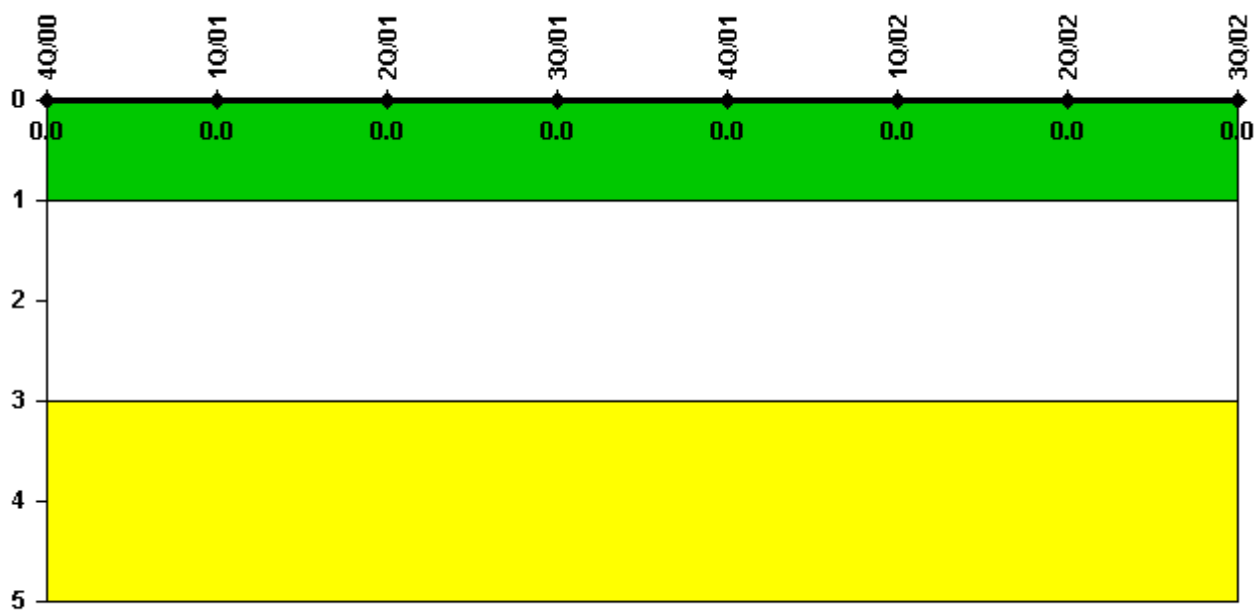


Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

**RETS/ODCM Radiological Effluent**

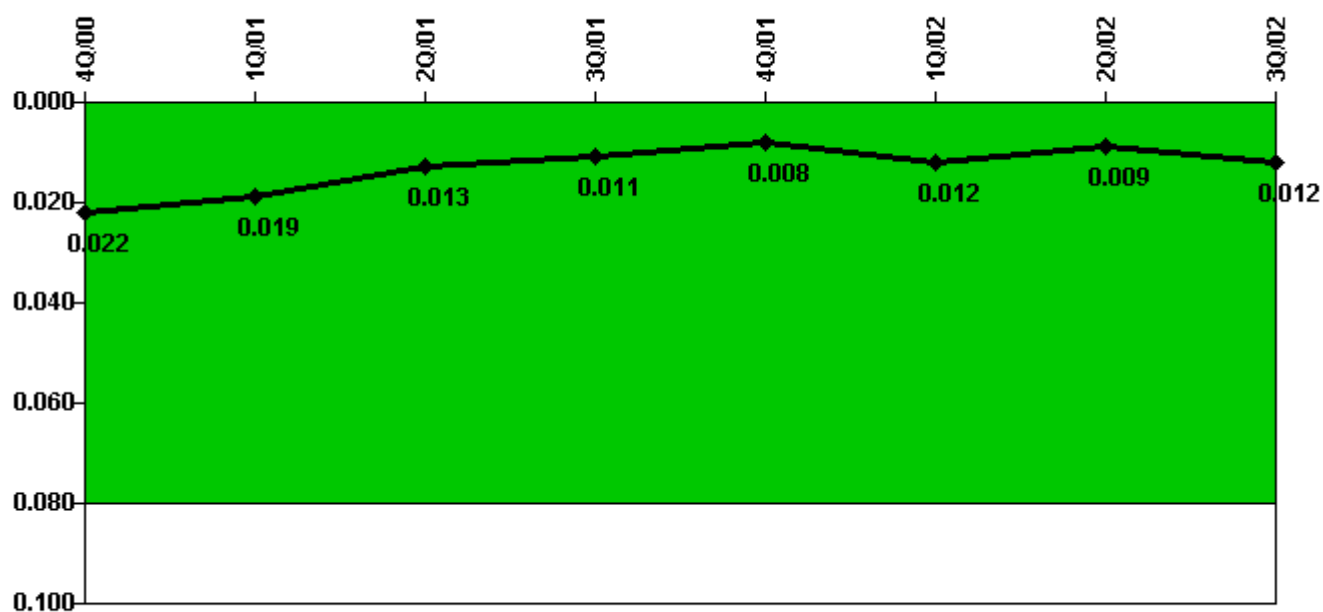
Thresholds: White > 1.0 Yellow > 3.0

**Notes**

RETS/ODCM Radiological Effluent	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



Thresholds: White > 0.080

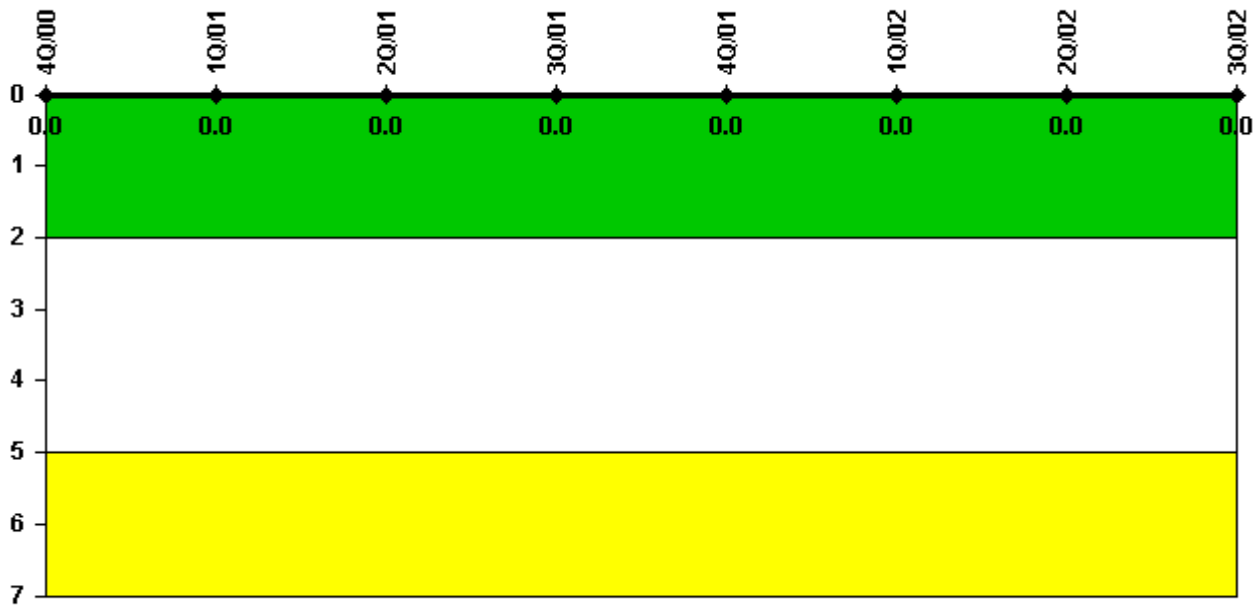
#### Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	25.70	18.60	65.40	8.60	8.70	82.10	7.90	65.40
CCTV compensatory hours	53.1	9.9	5.9	31.3	14.8	14.3	0	36.8
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.022	0.019	0.013	0.011	0.008	0.012	0.009	0.012

Licensee Comments: none



## Personnel Screening Program



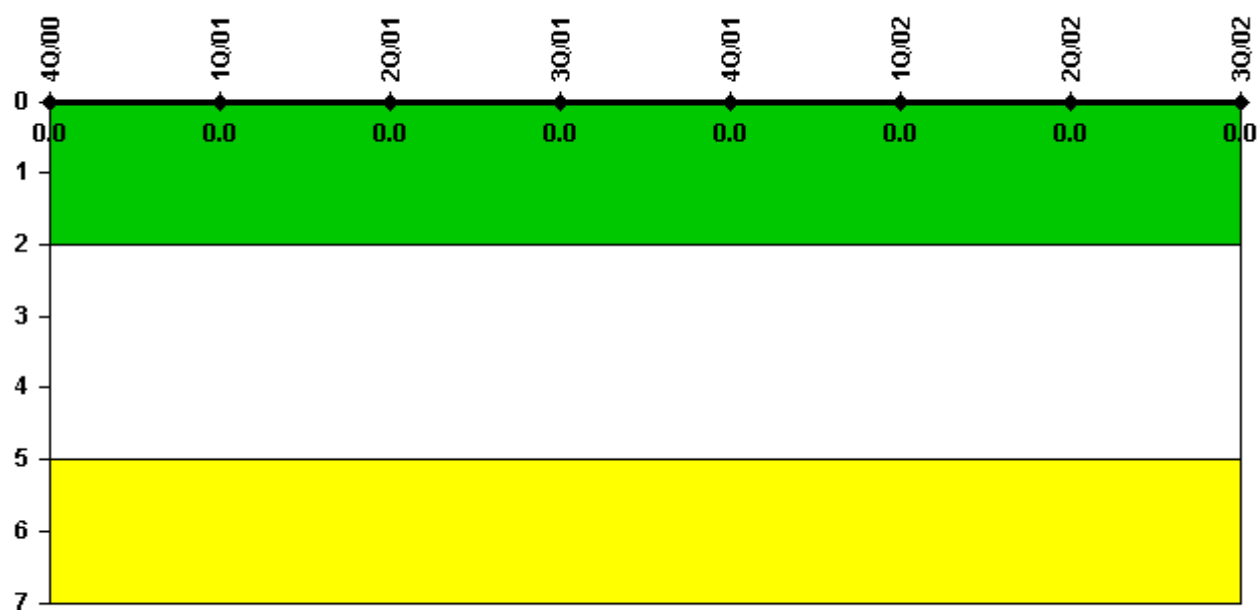
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Personnel Screening Program	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

### Notes

FFD/Personnel Reliability	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

▲ [PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: October 22, 2002